



# User Administration Application

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The User Administration Application contains the following tabs and subtabs:

- [Users Tab, page 4-3](#)
- [User Groups Tab, page 4-3](#)
- [Task Groups Tab, page 4-5](#)
- [AAA User Tasks Window, page 4-6](#)

The router user attributes form the basis of the router operating system administrative model. Each router user is associated with the following attributes:

- User ID (ASCII string) that identifies the user uniquely across an administrative domain (maximum of 253 characters).
- Password stored encrypted (maximum of 253 characters).
- List of user groups (at least one) of which the user is a member (thereby enabling attributes such as task IDs).

The router allows you to configure groups of users and the job characteristics that are common in groups of users. All groups must be explicitly assigned to users. Users are not assigned to groups by default. A user can be assigned to more than one group.

A user group defines a collection of users who share a common set of attributes such as access privileges. Each user may be associated with one or more user groups.

The router system provides a collection of user groups whose attributes are already defined. The predefined groups include:

- root-system
- root-lr
- sysadmin
- netadmin
- operator
- cisco-support

The user group root-system has root owners as the only members. The root-system group has predefined authorization; that is, it has the complete responsibility for root owner managed resources and certain responsibilities in other logical routers (LRs). Authorization is enabled by default for root system users in any LR. Refer to the *Configuring AAA Services on Cisco IOS-XR* module of the *Cisco IOS-XR System Security Configuration Guide* for detailed information on the predefined user groups.

Users can configure their own user groups to meet particular needs.

Router control, configure, or monitor operational tasks are represented by task IDs. A task ID defines the permission to execute an operation. Users are associated with sets of task IDs (a task group) that define their authorized access to the router.

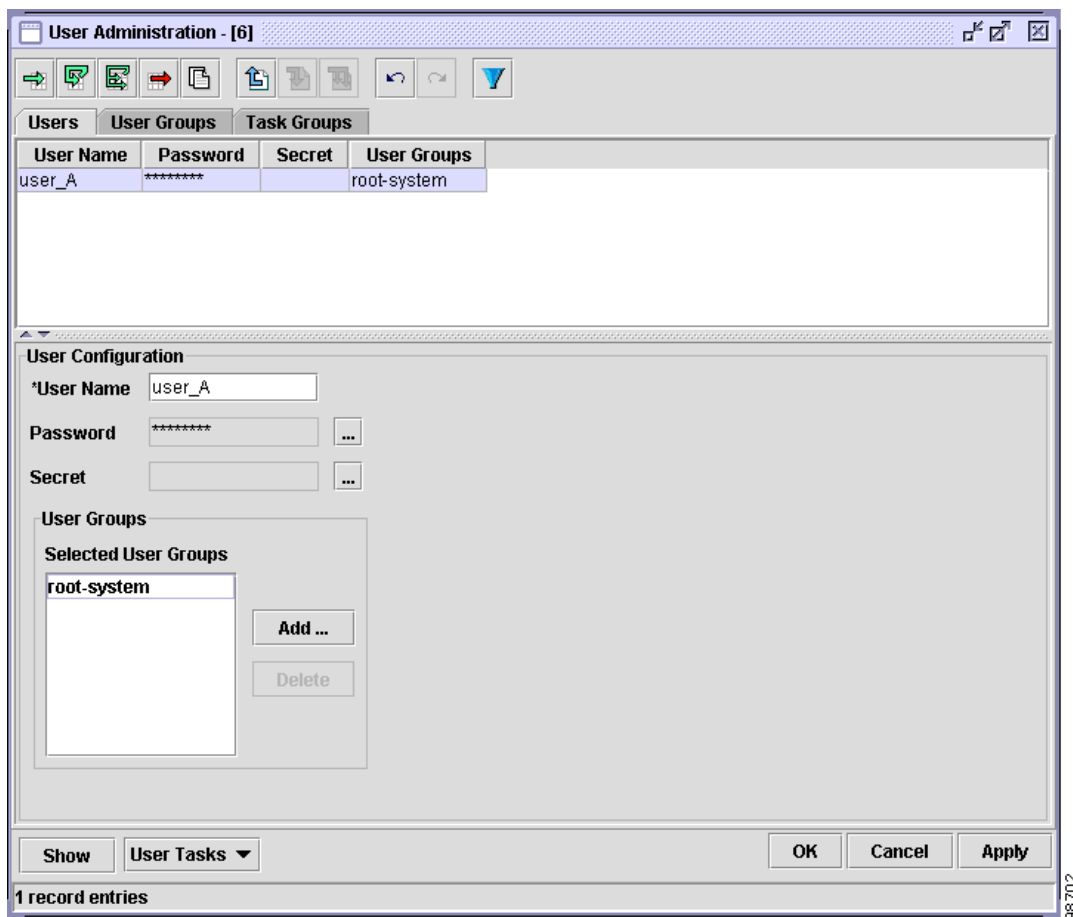
Task IDs are assigned to users through the following means. Each user is associated with one or more user groups. Every user group is associated with one or more task groups. In turn, every task group is defined by a set of task IDs. A user's association with a particular user group links that user to a particular set of task IDs. A user associated with a task ID can execute any of the operations associated with that task ID.

A task group is defined by a collection of task IDs. Task groups contain task ID lists for each class of task IDs. Each user group is associated with a set of task groups applicable to the users in that group. A user's task permissions are derived from the task groups associated with the user groups to which that user belongs.

See [Figure 4-1](#) for an example of the User Administration application.

Refer to the *Cisco CRS-1 Series Carrier Routing System Craft Works Interface User Interface Guide* for information on the common window elements and common activities procedures in the User Administration application.

**Figure 4-1 User Administration Application**



## Users Tab

Each user is identified by a username that is unique across the administrative domain. Each user must be a member of at least one user group. Deleting a user group may orphan the users associated with that group.

The Users tab allows you to perform the following tasks:

- Set the password for a username.
- Assign a username to user groups.

See [Figure 4-1](#) for an example of the Users tab. [Table 4-1](#) describes the Users tab fields.

**Table 4-1 Users Tab Description**

Field	Description
<b>User Configuration Area</b>	
User Name field	Allows you to enter a username.
Password	Allows to configure the password.
Password field	Allows you to confirm that a password has been configured using the User Administration dialog box. (See <a href="#">Password ellipsis button</a> .) The field displays asterisks when there is a configured password.
Password ellipsis button	Allows you to set the password associated with the username using User Administration dialog box. You must enter and confirm the password.
Secret	Allows you to configure the secret password. The secret password creates a secure login password.
Secret field	Allows you to confirm that a secret password has been configured using the User Administration dialog box. (See <a href="#">Secret ellipsis button</a> .) The field displays asterisks when there is a configured secret password.
Secret ellipsis button	Allows you to set the secure password associated with the username using the User Administration dialog box. You must enter and confirm the secure password.
Show	Allows you to open the AAA User Tasks window. See the “ <a href="#">AAA User Tasks Window</a> ” section on <a href="#">page 4-6</a> for more information on the AAA User Tasks window.
<b>User Groups Area</b>	
Selected User Groups list	Displays the user groups the username can inherit from.  Click the Add button to add a user group. This button opens a User Groups dialog box allowing you to choose a user group. Click Delete to remove a user group from the list.

## User Groups Tab

User groups are configured with the parameters for a set of users, such as task groups. You can add and remove specific user groups.

The User Groups tab allows you to perform the following tasks:

- Specify a user group name and description.
- Add and delete user groups from the selected user group.
- Add and delete task groups from the selected user group.

See [Figure 4-2](#) for an example of the User Groups tab. [Table 4-2](#) describes the User Groups tab fields.

Figure 4-2 User Groups Tab

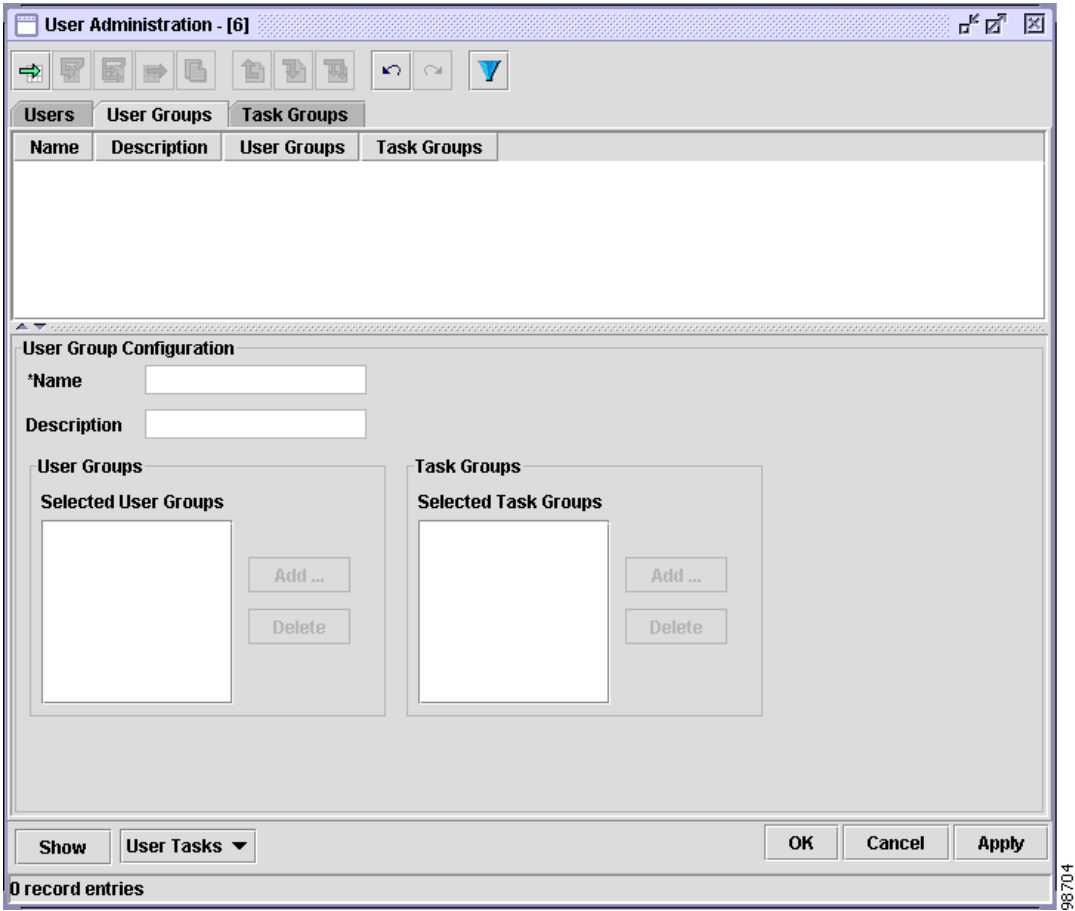


Table 4-2 User Groups Tab Description

Field	Description
<b>User Group Configuration Area</b>	
Name field	Allows you to enter a user group name.
Description field	Allows you to enter a description of the user group.
<b>User Groups Area</b>	
Selected User Groups list	Displays the user groups the user group is associated with. Click the Add button to add a user group. This button opens a User Group dialog box, allowing you to choose a user group. Click Delete to remove a user group from the list.
<b>Task Groups Area</b>	
Selected Task Groups list	Displays the task groups the user group is associated with. Click the Add button to add a task group. This button opens a Task Group dialog box, allowing you to choose a task group. Click Delete to remove a task group from the list.

## Task Groups Tab

Task-based authorization employs the concept of a task ID as its basic element. A task ID defines the permission to execute an operation for a given user. Each user is associated with a set of permitted router operation tasks identified by task IDs. Users are granted authority by being assigned to user groups that are in turn associated with task groups. Each task group is associated with one or more task IDs selected from the router set of available task IDs. The first configuration task in setting up the router authorization scheme is to configure the task groups, followed by user groups, followed by individual users.

The Task Groups tab allows you to perform the following tasks:

- Specify a task group name and description.
- Configure read, write, and execute classes for tasks.
- Add, delete, and inherit task groups from the chosen task group.

See [Figure 4-3](#) for an example of the Task Groups tab. [Table 4-3](#) describes the Task Groups tab fields.

*Figure 4-3 Task Groups Tab*

The screenshot displays the 'User Administration - [6]' window, specifically the 'Task Groups' tab. At the top, there are navigation tabs for 'Users', 'User Groups', and 'Task Groups'. Below these is a table with columns 'Name', 'Description', and 'Task Groups'. The main area is divided into 'Task Group Configuration' and 'Task Groups' sections. The 'Task Group Configuration' section includes input fields for 'Name' and 'Description'. The 'Task Groups' section contains a 'Selected Task Groups' list with 'Add ...' and 'Delete' buttons. At the bottom, there are 'Show', 'User Tasks' (dropdown), 'OK', 'Cancel', and 'Apply' buttons. The status bar at the very bottom indicates '0 record entries'.

*Table 4-3 Task Groups Tab Description*

Field	Description
<b>Task Group Configuration Area</b>	
Name field	Allows you to enter a task group name.
Description field	Allows you to enter a description of the task group.
Tasks table	<p>Allows you to enable and disable the following classes for each task:</p> <ul style="list-style-type: none"> <li>• read</li> <li>• write</li> <li>• execute</li> <li>• notify</li> </ul> <p>Checking the check box for a task enables the class for the task. If the check box is unchecked, the class is disabled.</p>
<b>Task Groups area</b>	
Selected Task Groups list	<p>Displays inherited the task groups for this task group.</p> <p>Click the Add button to add a task group. This button opens a Task Groups dialog box allowing you to choose a task group. Click Delete to remove a task group from the list.</p>

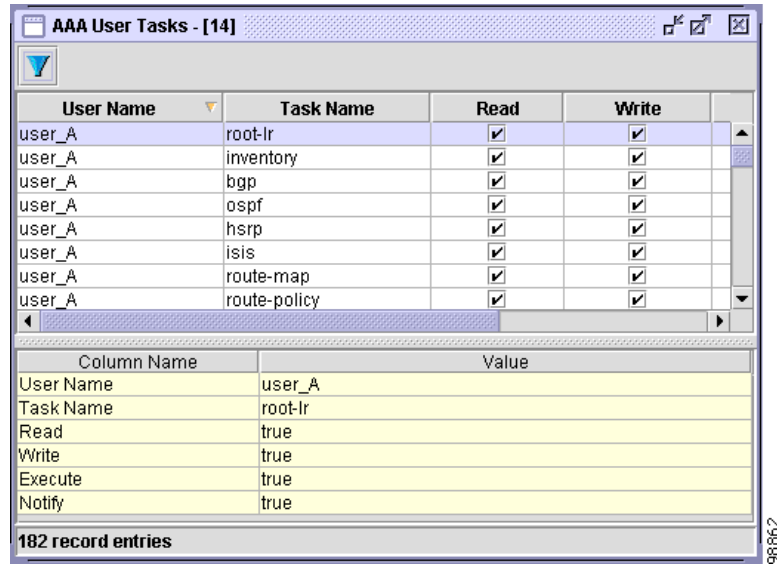
## AAA User Tasks Window

The AAA User Tasks window is opened from the User Administration application. The window allows you to display which tasks all users are assigned to and the privileges for each assigned task (read, write, execute, and notify).

See [Chapter 2, “AAA Application,”](#) for information on authentication, authorization, and accounting (AAA) in the AAA Administration application

See [Figure 4-4](#) for an example of the AAA User Tasks Window.

Figure 4-4 AAA User Tasks Window



The screenshot shows the 'AAA User Tasks - [14]' window. It contains a table with columns: User Name, Task Name, Read, Write, and an action column. The first eight rows show tasks for 'user\_A'. Below this is a detailed view of the selected task (root-lr) with columns: Column Name and Value. The detailed view shows: User Name: user\_A, Task Name: root-lr, Read: true, Write: true, Execute: true, and Notify: true. At the bottom, it says '182 record entries'.

User Name	Task Name	Read	Write	
user_A	root-lr	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	▲
user_A	inventory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
user_A	bgp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
user_A	ospf	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
user_A	hsrp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
user_A	isis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
user_A	route-map	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
user_A	route-policy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	▼

Column Name	Value
User Name	user_A
Task Name	root-lr
Read	true
Write	true
Execute	true
Notify	true

182 record entries

